Guide 48

EUB

Monthly Custom Treating Plant Statement

August 1992

Alberta Energy and Utilities Board

Important Message

The EUB is updating publications that pre-dated the amalgamation of the Energy Resources Conservation Board (ERCB) and the Public Utilities board (PUB) in 1995. The Alberta Energy and Utilities Board (EUB) takes the place of any references to the ERCB, PUB, or their full names.

Major revisions to EUB documents are occurring as part of regulatory re-engineering and streamlining initiatives. In some cases, older publications are withdrawn or integrated into new ones. This document has not yet gone throught the revision process. Please consult the latest Acts and Regulations to interpret and apply legal requirements.

To find a current contact name for this publication, please call 297-8311.

ALBERTA ENERGY AND UTILITIES BOARD
Guide 48: Monthly Custom Treating Plant Statement
Aug 1992

Published by
Alberta Energy and Utilities Board
640 – 5 Avenue SW
Calgary, Alberta
T2P 3G4

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105-04421/

ERCB

Monthly Custom Treating Plant Statement

ERCB Form S-24

ENERGY RESOURCES CONSERVATION BOARD
GUIDE SERIES

MONTHLY CUSTOM TREATING PLANT STATEMENT
ERCB FORM S-24

AUGUST 1992

Published by

Energy Resources Conservation Board
640 5 Avenue SW
Calgary, Alberta
T2P 3G4

Telephone (403) 297-8311

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MONTHLY CUSTOM TREATING PLANT STATEMENT
ERCB FORM S-24

INTRODUCTION

The following pages describe in detail the methods and steps necessary to complete the "Monthly Custom Treating Plant Statement".

A "Custom Treating Plant" is defined as a facility which produces no product but rather accepts oil/water emulsion from producers in the surrounding area. The facility separates the oil and water and allocates actual volumes back to each producer based on estimated volumes delivered. The oil is either delivered to a pipeline or returned to the producer. Water is delivered to a disposal/injection system.

No receipts of clean oil or free water are to be shown on the Custom Treating Plant Statement. A "Custom Treating Plant" can only receive an oil/water emulsion.

ERCB Energy Resources Conservation Board
64, [illegible] SW
Calgary, Alta T2P 3G4

MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT				PAGE
				YEAR	MONTH	DAY	CODE	
								___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED		ACTUAL	
		OIL m^3	WATER m^3	OIL m^3	WATER m^3

GENERAL REQUIREMENTS

Purpose of S-24

The S-24 is a monthly statement of receipts and disposition of oil, gas and water at a Custom Treating Plant.

Filing

The operator must file the S-24 Statement with the Board's Calgary Office at:

640 - 5th Avenue SW
Calgary, AB
T2P 3G4

NO LATER THAN THE 15TH OF THE MONTH following the month being reported.

All S-24 Statements require a contact name which is deemed to certify:

- that the information supplied is accurate and correct, and
- that the assigned areas for volumetric data are intended to be zero if left blank.

Format

- available forms

Obtain S-24 forms from the Board's Information Services Section, Calgary office.

- operator designed forms

Operators may design their own S-24 forms provided that the format conforms to the Board's standard. Obtain approval for a change in layout from the Board's Production Processing Systems Coordinator prior to submitting new S-24 forms.

Note: If any section of the S-24 requires more entries than one page can hold, use additional forms, re-entering the identification codes with consecutive page numbers. Ensure the summary totals are entered only once, on the first page.

Amendments to S-24

An amendment **replaces all data** on the original S-24, therefore the complete statement must be submitted, including the data that remains unchanged.

Photocopies of the original S-24 may be used providing:

- the entire statement is submitted and each page is legible
- the original data requiring change is stroked out and the amended data is written within the same column
- the amendment date is entered

Amendments to S-24 statements may necessitate corresponding amendments to other S-forms.

Metric Measurement

Liquid: in cubic metres (m^3) at 15°C and 101.325 kPa, rounded to 1 decimal place.

Gas: in thousands of cubic metres (10^3 m^3) at 15°C and 101.325 kPa, rounded to 1 decimal place.

ERCB Energy Resources Conservation Board
640 5 Th Avenue SW
Calgary, Alta T2P 3G4

MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME (1) _____ FACILITY NAME (2) _____

ADDRESS _____ LOCATION (3) _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
(4)		(5)	(6)		(7)			(8) ___ of ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3

FACILITY IDENTIFICATION

1.	Operating Company Name & Address:	Name and address of treating plant operating company must be entered.
2.	Facility Name:	Enter the ERCB approved facility name.
3.	Location:	Enter the legal land description on which the facility is located.
4.	Year - Month:	Enter the process year and month.
5.	Operator Code:	Enter the ERCB assigned operating company code.
6.	Facility Code:	Enter the ERCB assigned facility code.
7.	Amendment:	
	Year/Month/Day:	Enter the date the amendment was prepared.
	Code:	Not required - leave blank
8.	Page:	Enter the page number.
9.	Contact & Phone:	Enter the name of the individual to be contacted regarding the submission. Enter the telephone number at which the contact person can be reached.
10.	Signature:	The report must be signed by an individual authorized by the operating company to certify accuracy.
11.	Date:	Enter the date the report was submitted.

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Gas volumes in $10^3 m^3$ at 101.325 kPA and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
								___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3
12		13	14		

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03						
WATER	06						

CONTACT _____

PHONE ___ - ___

SIGNATURE _____ DATE _____

S-24 92.08

EFFLUENT RECEIPTS

For purposes of Custom Treating Plant reporting, all receipts from each independent facility which were received during the process month are to be summed and entered on one line. It should be noted, however, that all truck tickets and water cut data for each load received must be retained for a period of one year and made available to the ERCB on request.

12. Operator & Battery/Facility: Enter the operator code, and facility code for each facility from which emulsion was received during the process month.

Estimated Receipts:

13. Oil: For each individual facility from which emulsion was received, and based on volume measurements and samples taken during off loading, an estimated volume of oil is determined.

Note: Clean, pipeline specification oil from a facility is not to be reported on the form.

14. Water: For each individual facility from which emulsion was received, and based on volume measurements and samples taken during off loading, an estimated volume of water is determined.

Note: Free water from a facility is not to be reported on the form.

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Calgary, Alta T2P 3G4

MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT				PAGE
				YEAR	MONTH	DAY	CODE	___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED		ACTUAL	
		OIL m^3	WATER m^3	OIL m^3	WATER m^3
				15	16

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03						
WATER	06						

CONTACT _____

PHONE _____ - _____

SIGNATURE _____ DATE _____

S-24 92.08

EFFLUENT RECEIPTS (cont'd)

Actual Receipts:

The actual oil and water receipts columns cannot be completed until all other sections of the form have been completed and the allocation factor determined.

15. Oil: Actual oil received is a calculated volume which results from multiplying the estimated oil receipt by an oil allocation factor. See end of this guide for "Allocation Calculations". The actual volume reported must equal the volume reported on the S-2 for the delivering battery.

16. Water: Actual water received is a calculated volume which results from multiplying the estimated water receipt by a water allocation factor. See end of this guide for "Allocation Calculations". The actual volume reported must equal the volume reported on the S-2 for the delivering battery.

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MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPA and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
								___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
	17	18	19

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
	20	21	22

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03						
WATER	08						

CONTACT

PHONE ( ) -

SIGNATURE _____ DATE _____

S-24 92.06

DELIVERIES

Oil:

17. Operator & Battery/Facility: Enter the operator and facility codes to which processed oil was delivered. In the event deliveries were sent directly to a pipeline, the facility code of the pipeline or terminal is sufficient.

18. Delivery Type: If oil is lost or delivered to a destination other than a battery/facility, identify these volumes as follows:

Description	Code
Spill	04
Theft	06
Fire	08
Miscellaneous	20

19. Volume: Enter the volume delivered to each destination.

Water:

20. Operator & Battery/Facility: Enter the operator and facility codes to which processed water was delivered.

21. Delivery Type: If water is lost or delivered to a destination other than a battery/facility, identify these volumes as follows:

Description	Code
Spill	04
Miscellaneous	20

22. Volume: Enter the volume delivered to each destination.

ERCB Energy Resources Conservation Board

MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
								___ of ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
23		24
FLARED / VENTED		25

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$
26		27

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03						
WATER	08						

CONTACT _____

PHONE ___ - ___

SIGNATURE _____ DATE _____

S-24 02-01

DELIVERIES (cont'd)

Gas:

In some cases (particularly heavy oil or bitumen operations) entrained gas is released during the treating process. If this gas is not completely used for fuel purposes, disposition of excess gas must be reported.

23.	Operator/Facility:	Enter the ERCB assigned operator and facility codes to which any excess gas was delivered.
24.	Volume:	Enter the volume of excess gas delivered to each destination.
25.	Flared/Vented	If any excess gas is flared or vented, enter the volume.

FUEL GAS RECEIVED

Enter only those volumes of fuel gas actually received from a gas gathering system or a gas plant. Do not enter fuel gas from on-site propane bullets, gas co-ops or entrained gas released during processing.

26.	Operator/Facility:	Identify the source of fuel gas received from gas gathering systems or gas plants by entering the ERCB assigned operator and facility codes.
27.	Volume:	Enter the volume of fuel gas received.

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Gas volumes in $10^3 m^3$ at 101.325 kPA and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
								___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3

SUMMARY

Estimated Receipts:

28. Oil: Enter the total of all estimated oil receipt volumes received during the process month.

29. Water: Enter the total of all estimated water receipt volumes received during the process month.

Actual Receipts:

30. Oil: Enter the total of all actual oil receipt volumes received during the process month.

Note: Actual oil receipts must equal oil deliveries plus oil closing inventory minus oil opening inventory.

31. Water: Enter the total of all actual water receipt volumes received during the process month.

Note: Actual water receipts must equal water deliveries plus water closing inventory minus water opening inventory.

Opening Inventory:

32. Oil: Enter the volume of oil held in inventory at the beginning of the process month. This volume must include any oil held in unprocessed emulsion.

33. Water: Enter the volume of water held in inventory at the beginning of the process month. This volume must include any water held in unprocessed emulsion.

Closing Inventory:

34. Oil: Enter the volume of oil held in inventory at the end of the process month. This volume must include any oil held in unprocessed emulsion.

35. Water: Enter the volume of water held in inventory at the end of the process month. This volume must include any water held in unprocessed emulsion.

Note: See end of this chapter "Allocation Calculations" for acceptable methods of estimating the oil/water split in unprocessed emulsion inventories.

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MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in 10^3m^3 at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME _____ FACILITY NAME _____

ADDRESS _____ LOCATION _____

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT				PAGE
				YEAR	MONTH	DAY	CODE	___ OF ___

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED		ACTUAL	
		OIL m^3	WATER m^3	OIL m^3	WATER m^3

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME 10^3m^3
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME 10^3m^3

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03					36 37	38 39
WATER	08						

CONTACT _____

PHONE _____ - _____

SIGNATURE _____ DATE _____

S-24 07-06

SUMMARY (cont'd)

Deliveries:

36. Oil: Enter the sum of all oil deliveries made during the process month.

37. Water: Enter the sum of all water deliveries made during the process month.

Allocation Factor: **For details of calculations, see Section "Allocation Calculations" in this guide.**

38. Oil: Calculated as follows (round to five decimal positions)

$$\frac{\textit{Total Actual Oil Receipts}}{\textit{Total Estimated Oil Receipts}}$$

39. Water: Calculated as follows (round to five decimal positions)

$$\frac{\textit{Total Actual Water Receipts}}{\textit{Total Estimated Water Receipts}}$$

CUSTOM TREATING PLANT

ALLOCATION CALCULATIONS

ERCB Energy Resources Conservation Board 640 Fifth Avenue SW Calgary, Alta T2P 3G4

MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPA and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME ABC Co. LTD. FACILITY NAME ABC Custom

ADDRESS SOMEWHERE, ALTA. LOCATION 01-01-001-01 W4M

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
90	03	123	649	1	1	1		1 OF 1

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3
123	1234567	22.5	7.5	18.9	8.9
ABC	1234568	88.5	95.1	74.4	113.4
XYZ	1234569	63.2	11.0	53.1	13.1
456	1234560	88.8	3.4	74.7	4.1
MNO	1234570	37.2	11.9	31.3	14.2
789	1234571	185.4	421.2	155.8	502.2
123	1234572	48.8	8.5	41.0	10.1
456	1234573	96.3	43.2	80.9	51.5
KLM	1234574	62.4	10.1	52.5	12.1

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
	044		278.5
	026		331.9

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
ABC	8075		715.2

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$
XYZ	3980	98.6

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC FACTOR
OIL	03	693.1	582.6	134.3	106.5	610.4	0.84057
WATER	08	611.9	729.6	49.6	64.0	715.2	1.19235

CONTACT MARY BROWN

PHONE 403 555-1212

SIGNATURE Mary Brown DATE 90-04-15

S-24 93/06

CUSTOM TREATING PLANT ALLOCATION CALCULATIONS

Step 1: Determine Inventories

In order to allocate product volumes to producers equitably, and to account for unprocessed product on hand at the beginning and end of each process month, it is necessary that a determination be made which will provide an accurate estimate of the volume of oil and water which are held in unprocessed emulsions. This matter can be simplified by minimizing inventory as part of production practices.

The preferred method of making this determination is by taking samples (top, middle, bottom) from the emulsion tanks using a thief sampler. A second method which is also acceptable is the use of a ratio of oil to water as estimated during receipt of the last trucked-in volumes relating to the emulsion volume held in inlet tanks.

Example

Inlet tank contains 38 m^3 of emulsion

Last truckloads of emulsion received at facility are as follows:

Last truck	15 m^3 emulsion, water cut is 7.1%
Last truck - 1	12 m^3 emulsion, water cut is 12.6%
Last truck - 2	14 m^3 emulsion, water cut is 11.5%

These last three trucks delivered 41 m^3 of emulsion to the facility. The total is greater than the volume of emulsion remaining in the inlet tank. It is assumed that emulsion in the inlet tank came from these three loads.

Actual oil and water, for inventory purposes, held in the inlet tank is calculated as follows:

Last truck water volume = 15 m^3 × 7.1% = 1.1 m^3
Last truck - 1 water volume = 12 m^3 × 12.6% = 1.5 m^3
Last truck - 2 water volume = 14 m^3 × 11.5% = 1.6 m^3

Total emulsion received from last three loads is 41 m^3
Total water contained in last three loads is 4.2 m^3

Therefore water cut is: $\frac{4.2\ m^3}{41\ m^3} \times 100 = 10.2\%$

Finally, water held in emulsion at month end is: 38 m^3 × 10.2% = 3.9 m^3

and oil held in emulsion is: 38 m^3 – 3.9 m^3 = 34.1 m^3.

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MONTHLY CUSTOM TREATING PLANT STATEMENT (S-24)

Gas volumes in $10^3 m^3$ at 101.325 kPa and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME ABC Co. LTD. FACILITY NAME ABC Custom

ADDRESS SOMEWHERE, ALTA. LOCATION 01-01-001-01 W4M

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
90	03	123	649					1 of 1

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3
123	1234567	22.5	7.5	18.9	8.9
ABC	1234568	88.5	95.1	74.4	113.4
XYZ	1234569	63.2	11.0	53.1	13.1
456	1234560	88.8	3.4	74.7	4.1
MNO	1234570	37.2	11.9	31.3	14.2
789	1234571	185.4	421.2	155.8	502.2
123	1234572	48.8	8.5	41.0	10.1
456	1234573	96.3	43.2	80.9	51.5
KLM	1234574	62.4	10.1	52.5	12.1

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
	044		278.5
	026		331.9

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
ABC	8075		715.2

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$
XYZ	3980	98.6

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03	693.1	582.6	134.3	106.5	610.4	0.84057
WATER	05	611.9	729.6	49.6	64.0	715.2	1.19235

CONTACT MARY BROWN

PHONE 403 555-1212

SIGNATURE Mary Brown DATE 90-04-15

S-24 02-09

Step 1: Determine Inventories (cont'd)

Closing Oil Inventory is equal to:
treated oil held in sales tank plus oil in emulsion in inlet tank.

Closing Water Inventory is equal to:
treated water held in outlet tank plus water in emulsion in inlet tank.

Opening inventory for both oil and water is equal to the closing inventory of oil or water from the immediately preceding process month.

Step 2: Calculate Actual Receipts

Actual oil receipts is equal to:
Oil Deliveries + Oil Closing Inventory – Oil Opening Inventory

Actual water receipts is equal to:
Water Deliveries + Water Closing Inventory – Water Opening Inventory

In the example opposite the following calculations apply:

Oil Deliveries	= 610.4 m^3	Water Deliveries	= 715.2 m^3
Oil Closing Inventory	= 106.5 m^3	Water Closing Inventory	= 64.0 m^3
Oil Opening Inventory	= 134.3 m^3	Water Opening Inventory	= 49.6 m^3

therefore actual oil receipts are: 610.4 m^3 + 106.5 m^3 – 134.3 m^3 = 582.6 m^3

and actual water receipts are: 715.2 m^3 + 64.0 m^3 – 49.6 m^3 = 729.6 m^3

Step 3: Calculate Allocation Factors

Oil allocation factor is equal to:
Actual Oil Receipts ÷ Estimated Oil Receipts

Water allocation factor is equal to:
Actual Water Receipts ÷ Estimated Water Receipts

In the example opposite the following calculations apply:

Actual Oil Receipts	= 582.6 m^3	Actual Water Receipts	= 729.6 m^3
Estimated Oil Receipts	= 693.1 m^3	Estimated Water Receipts	= 611.9 m^3

therefore the allocation factors are:

Oil: 582.6 m^3 ÷ 693.1 m^3 = 0.84057

Water: 729.6 m^3 ÷ 611.9 m^3 = 1.19235

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Gas volumes in $10^3 m^3$ at 101.325 kPA and 15°C
Oil and Water volumes in m^3 at 101.325 kPa and 15°C

OPERATING COMPANY NAME ABC Co. LTD. FACILITY NAME ABC Custom

ADDRESS SOMEWHERE, ALTA. LOCATION 01-01-001-01 W4M

YEAR	MONTH	OPERATOR	FACILITY	AMENDMENT YEAR	AMENDMENT MONTH	AMENDMENT DAY	AMENDMENT CODE	PAGE
90	03	123	649	1	1	1		1 of 1

EFFLUENT RECEIPTS

OPERATOR	BATTERY/FACILITY	ESTIMATED OIL m^3	ESTIMATED WATER m^3	ACTUAL OIL m^3	ACTUAL WATER m^3
123	1234567	22.5	7.5	18.9	8.9
ABC	1234568	88.5	95.1	74.4	113.4
XYZ	1234569	63.2	11.0	53.1	13.1
456	123456D	88.8	3.4	74.7	4.1
MNO	1234570	37.2	11.9	31.3	14.2
789	1234571	185.4	421.2	155.8	502.2
123	1234572	48.8	8.5	41.0	10.1
456	1234573	96.3	43.2	80.9	51.5
KLM	1234574	62.4	10.1	52.5	12.1

OIL DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
	044		278.5
	026		331.9

WATER DELIVERIES

OPERATOR	BATTERY/FACILITY	TYPE	VOLUME m^3
ABC	8075		715.2

GAS DELIVERIES

OPERATOR	FACILITY	VOLUME $10^3 m^3$
FLARED / VENTED		

FUEL GAS RECEIVED

OPERATOR	FACILITY	VOLUME $10^3 m^3$
XYZ	3980	98.6

SUMMARY

		EST. RECEIPTS	ACT. RECEIPTS	OPEN INV.	CLOSE INV.	DELIVERIES	ALLOC. FACTOR
OIL	03	693.1	582.6	134.3	106.5	610.4	0.84057
WATER	08	611.9	729.6	49.6	64.0	715.2	1.19235

CONTACT MARY BROWN

PHONE 403 555-1212

SIGNATURE Mary Brown DATE 90-04-15

Step 4: **Calculate Actual Receipts by Facility**

Oil: For each receipt line, the actual oil receipt is calculated as follows:

Estimated Oil Receipt × Oil Allocation Factor

Round the result to one decimal position and enter the volume in the actual oil receipt column for that facility.

In the example opposite the following calculation applies:

Estimated Oil Receipt = 22.5 m^3

Oil Allocation Factor = 0.84057

Actual Oil Receipt is: 22.5 m^3 × 0.84057 = 18.9 m^3

Water: For each receipt line, the actual water receipt is calculated as follows:

Estimated Water Receipt × Water Allocation Factor

Round the result to one decimal position and enter the volume in the actual water receipt column for that facility.

In the example opposite the following calculation applies:

Estimated Water Receipt = 7.5 m^3

Water Allocation Factor = 1.19235

Actual Water Receipt is: 7.5 m^3 × 1.19235 = 8.9 m^3

Step 5: **Actual Receipt Totals**

The sum of facility actual receipt columns must equal the actual receipt volumes as calculated in Step 2 above, therefore some caution is advised when rounding the actual receipt volumes in Step 4.